



13 MECHANICS AND CHEMICALS
ONE MEMBER LIMITED LIABILITY COMPANY

AMMUNITION PRODUCTS CATALOGUE

SMALL ARMS AMMUNITION

ARTILLERY AMMUNITION



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PART 01

SMALL ARMS AMMUNITION



5,56×45mm ROUND DS-545-M1/M2 T

LEAD CORE (BALL)



DS-545-M1/M2 T 5,56×45 mm round is used for submachine guns AR-15 (M16A1 or M16A2) – USA, TAVOR C, NEGEV – Israel, etc.



Round is used against individual unarmored or lightly armored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	57,4 mm	Bullet type	Lead core (ball)
Case length (max)	44,7 mm	Case material	Bimetal F18
Round weight (max)	11,5 g	Jacket material	Bimetal F11
Bullet weight (max)	3,53 g	Primer	HL-545 (Boxer) / K51 (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25m	953...972 m/s with 508 mm barrel
Maximum pressure per single shot	≤ 348,26 MPa (3.550 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 313,92 MPa (3.200 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,2 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	61 paperboard boxes (1.220 rounds)
1 wooden crate	2 metal boxes (2.440 rounds)

5,56×45mm ROUND ĐS545M1/M2-H

BLANK ROUND



5,56×45 mm blank round
ĐS-545-M1/M2 H is used for
submachine guns M16A1 (or M16A2)



Round used for training exercises.



Shelf life: Minimum 15 years under
proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	53,5 mm
Round weight (max)	7,44 g
Case material	Bimetal F18
Primer	HL-545 (Boxer) / K51 (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	5 m
Rate of fire	700...950 rounds/minute
Sound intensity level at 150 m	120±10 dB

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	64 paperboard boxes (1.280 rounds)
1 wooden crate	2 metal boxes (2.560 rounds)

7,62×25mm ROUND ĐS-K51 T

LEAD CORE (BALL)



7,62×25 mm ĐS-K51 T round is used for handguns TT-33 TOKAREV, Barinov, K54, and submachine guns like PPD, PPSH, PPS



Round is used against individual unarmored targets at close range



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	34,85 mm	Bullet type	Lead core
Case length (max)	24,7 mm	Case material	Bimetal F18
Round weight (max)	10,9 g	Jacket material	Bimetal F11
Bullet weight (max)	5,6 g	Primer	K51SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 10m	
- TT-33	420...450 m/s with 116 mm barrel
- Barinov	430...460 m/s
Maximum pressure per single shot	≤ 210,9 MPa (2.150 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 196,2 MPa (2.000 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 5 cm

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	84 paperboard boxes (1.344 rounds)
1 wooden crate	2 metal boxes (2.688 rounds)

7,62×25mm ROUND ĐS51 X

ARMOR-PIERCING



7,62x25mm ĐS51 X round is used for handguns such as TT-33 TOKAREV, Barinov, K54, and submachine guns PPD, PPSH, PPS



Round is used against individual armored targets at close range



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	34,85 mm	Case material	Bimetal F18
Round weight (max)	11,1 g	Jacket material	Bimetal F11
Bullet weight (max)	5,6 g	Primer	K51SK (Berdan)
Bullet type	Amor-piercing		

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 10 m	
- TT-33	420...450 m/s with 116 mm barrel
- Barinov	430...460 m/s
Maximum pressure per single shot	≤ 210,91 MPa (2.150 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 196,2 MPa (2.000 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 5 cm
Penetration	4mm steel plate at 25m

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	84 paperboard boxes (1.344 rounds)
1 wooden crate	2 metal boxes (2.688 rounds)

7,62x25mm ROUND ĐSK51-H

BLANK ROUND



7,62x25mm blank round ĐSK51-H is used for handguns such as TT-33 TOKAREV, Barinov, K54, and submachine guns PPD, PPSH, PPS



Round is used for training exercises.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	30,4 mm
Round weight (max)	5,63 g
Case material	Bimetal F18
Primer	K51SK (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	5 m
The sound of the shot, rate of fire, and muzzle flash are equivalent to combat ammunition	

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	84 paperboard boxes (1.344 rounds)
1 wooden crate	2 metal boxes (2.688 rounds)

7,62×39mm ROUND ĐS-K56 T

STEEL CORE (BALL)



7,62×39 mm ĐS-K56 T round is used for rifles such as CKC, submachine guns AK-47, AKM, and light machine guns RPD, RPK



Round is used against individual unarmored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

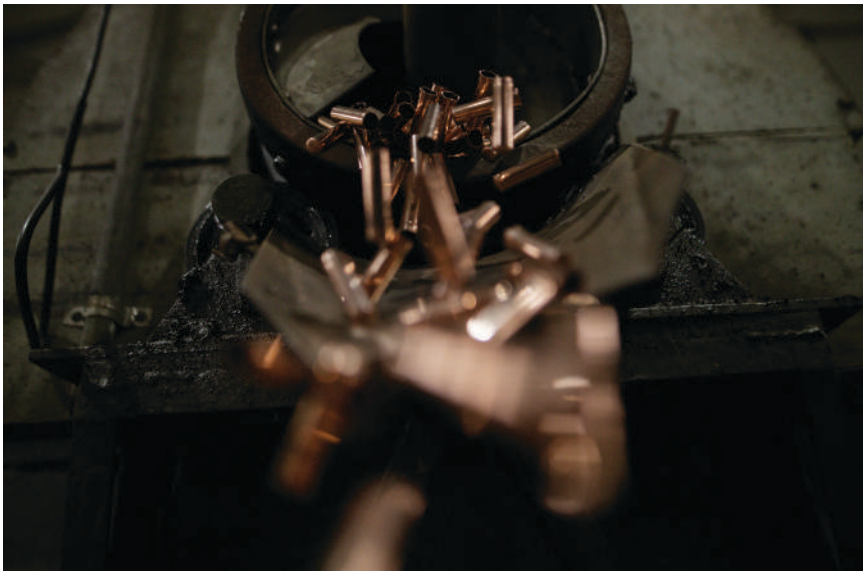
Round length (max)	56 mm	Bullet type	Steel core
Case length (max)	38,7 mm	Case material	Bimetal F18
Round weight (max)	16,9 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	8,05 g	Primer	K56SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	710...725 m/s with 520mm barrel
Maximum pressure per single shot	≤ 299,20 MPa (3.050 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 274,68 MPa (2.800 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,5 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	46 paperboard boxes (920 rounds)
1 wooden crate	2 metal boxes(1.840 rounds)





7,62x39mm ROUND ĐS56X

ARMOR-PIERCING



7,62x39mm ĐS56X round is used for rifles such as CKC, submachine guns AK-47, AKM, and light machine guns RPD, RPK



Round is used against individual armored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	56 mm	Bullet type	Amor-piercing
Case length (max)	38,7 mm	Case material	Bimetal F18
Round weight (max)	16,9 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	8,0 g	Primer	K56SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	730...770 m/s with 520mm barrel
Maximum pressure per single shot	≤ 299,20 MPa (3.050 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 274,68 MPa (2.800 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,5 cm
Penetration	12mm steel plate at 100m Level III body armor (NIJ.0101.04) at 15m.

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	46 paperboard boxes (920 rounds)
1 wooden crate	2 metal boxes(1.840 rounds)

7,62×39mm AMOR-PIERCING ROUND ĐSK56-XG

ARMOR-PIERCING



7,62×39mm armor-piercing ĐSK56-XG round is used for rifles such as CKC, submachine guns AK-47, AKM, STV-410, and light machine guns RPD, RPK.



Round is used against armored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	53,63 mm	Bullet type	Armor-piercing
Case length (max)	38,7 mm	Case material	Bimetal F18
Round weight (max)	16,9 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	8,0 g	Primer	K56SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	720...745 m/s with 520mm barrel
Maximum pressure per single shot	≤ 299,20 MPa (3.050 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 274,68 MPa (2.800 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,5 cm
Penetration	18mm steel plate at 100m Level III body armor (NIJ.0101.06) at 15m.

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	46 paperboard boxes (920 rounds)
1 wooden crate	2 metal boxes(1.840 rounds)

7,62×39mm ROUND ĐS-K56 H

BLANK ROUND



7,62×39 mm blank round ĐS-K56 H is used for submachine guns AK-47, AKM and light machine guns RPD, RPK.



Cartridge used for training exercises.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	45,8 mm
Round weight (max)	8,94 g
Case material	Bimetal F18
Primer	K56SK (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	5 m
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The sound of the shot, rate of fire, and muzzle flash are equivalent to combat ammunition

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	50 paperboard boxes (1.000 rounds)
1 wooden crate	2 metal boxes(2.000 rounds)

7,62×51mm ROUND ĐS7N / ĐS751M2-T

LEAD CORE (BALL)



7,62×51 mm ĐS7N / ĐS751M2-T round is used for rifles M14, machine guns M60, MAG58, MAG60, etc.



Round is used against individual unarmored or lightly-armored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	71,1 mm	Bullet type	Lead core
Case length (max)	51,18 mm	Case material	Bimetal F18
Round weight (max)	24,4 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	9,75 g	Primer	HL-7,62X51SK (Boxer) / K53SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	820...835 m/s
Maximum pressure per single shot	≤ 324,9 MPa (3.312 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 304 MPa (3.099 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,2 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	27 paperboard boxes (540 rounds)
1 wooden crate	2 metal boxes(1.080 rounds)

7,62×51mm AMOR-PIERCING ROUND ØS7,62x51-XG

ARMOR-PIERCING



7,62×51 mm armor-piercing ØS7,62×51-XG round is used for rifles M14, sniper rifles Galil Sniper, machine guns M60, MAG-58, MAG-60, and firearms using 7,62×51 mm ammunition.



Round is used against armored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	71,1 mm	Bullet type	Armor-piercing
Case length (max)	51,18 mm	Case material	Bimetal F18
Round weight (max)	24,4 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	9,75 g	Primer	HL-7,62x51SK (Boxer)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	820...835 m/s
Maximum pressure per single shot	≤ 324,9 MPa (3.312 kG/cm ²)
Average maximum pressure	≤ 304 MPa (3.099 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,2 cm
Penetration	Level III+ body armor or K53T round-resistant body armor of Vietnam at 15m. 24 mm CT3 steel plate at 100m

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	27 paperboard boxes (540 rounds)
1 wooden crate	02 metal boxes (1.080 rounds)







7,62×54mm ROUND ĐS-K53 T

STEEL CORE (BALL)



7,62×54 mm ĐS-K53 T round is used for rifles K44, CBD, light machine guns RP46, SG-43, and heavy machine guns PK, PKM, PKMS, PKB, SG-43 (K53), SGM (K57).



Round is used against individual unarmored targets.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	77,16 mm	Bullet type	Steel core
Case length (max)	53,72 mm	Case material	Bimetal F18
Round weight (max)	23,2 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	9,75 g	Primer	K53SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	820...835 m/s with 730mm barrel
Maximum pressure per single shot	≤ 304,11 MPa (3.100 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 284,49 MPa (2.900 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,6 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	32 paperboard boxes (640 rounds)
1 wooden crate	2 metal boxes (1.280 rounds)

7,62×54mm SNIPER ROUND ĐSK53-BT

SNIPER ROUND



7,62×54 mm ĐSK53-BT sniper round is used for sniper rifles SVD or 7,62 mm SVD VN



Round is effective against targets at ranges up to 800m (with scope mounted).



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	77,16 mm	Bullet type	Steel core
Case length (max)	53,72 mm	Case material	Bimetal F18
Round weight (max)	23,55 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	9,9 g	Primer	K53SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	815...830 m/s
Maximum pressure per single shot	≤ 304,11 MPa (3.100 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 284,49 MPa (2.900 kG/cm ²)
Grouping accuracy at 100 m (04 shots x 3 targets)	R _{100TB} ≤ 2,7 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	32 paperboard boxes (640 rounds)
1 wooden crate	2 metal boxes(1.280 rounds)

7,62×54mm ROUND ĐS53X

ARMOR-PIERCING



7,62×54 mm ĐS53X round is used for rifles K44, CBD, light machine guns RP-46, SG-43, and heavy machine guns PK, PKM, PKMS, PKB, etc.



Round is used against individual armored targets



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	77,16 mm	Bullet type	Amor-piercing
Case length (max)	53,72 mm	Case material	Bimetal F18
Round weight (max)	23,2 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	9,75 g	Primer	K53SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 25 m	840...890 m/s with 730 mm barrel
Maximum pressure per single shot	≤ 304,11 MPa (3.100 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 284,49 MPa (2.900 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,6 cm
Penetration	16 mm steel plate at 100m Level III body armor (NIJ 0101.04) USA standard at 15 m

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	32 paperboard boxes (640 rounds)
1 wooden crate	2 metal boxes(1.280 rounds)

7,62×54mm ROUND ĐS53H

BLANK ROUND



7,62×54mm blank round ĐS53H round is used for heavy machine guns PKMS and heavy machine gun 57.



Round is used for training exercises.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	71,6 mm
Round weight (max)	12 g
Case material	Bimetal F18
Primer	K53SK (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	10 m
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The sound of the shot, rate of fire, and muzzle flash are equivalent to combat ammunition

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	32 paperboard boxes (640 rounds)
1 wooden crate	2 metal boxes(1.280 rounds)

9×18mm ROUND ĐS-K59

STEEL CORE (BALL)



9×18 mm ĐS-K59 round is used for 9 mm pistols Makarov (PM), K59, PA-63, machine pistols 9 mm P63, APS, etc.



Round is used against individual unarmored targets at close range



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	25 mm	Bullet type	Steel core
Case length (max)	18,1 mm	Case material	Bimetal F18
Round weight (max)	10,07 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	6,15 g	Primer	K59 (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 10 m	290...315 m/s with 93mm barrel
Maximum pressure per single shot	≤ 137,34 MPa (1.400 kG/cm ²)
Maximum average pressure (group of 10 shots)	≤ 117,72 MPa (1.200 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 4 cm

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	120 paperboard boxes (1.920 rounds)
1 wooden crate	2 metal boxes(3.840 rounds)

9×19mm ROUND ĐS-919-M1/M2 T

LEAD CORE (BALL)



9×19 mm ĐS-919-M1/M2 T round is used for machine pistols Micro-Uzi, pistols Luger, etc.



Round is used against individual unarmored targets at close range



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	29,59 mm	Bullet type	Lead core
Case length (max)	19,15 mm	Case material	Bimetal F18
Round weight (max)	11,90 g	Jacket material	Bimetal F11
Bullet weight (max)	7,59 g	Primer	9x19 (Boxer) / K59 (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 10 m	
- Luger pistols	345...370 m/s with 125mm barrel
- Micro-Uzi	340...365 m/s
Maximum pressure per single shot	≤ 207,48 MPa (2.115 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 185,41 MPa (1.890 kG/cm ²)
Grouping accuracy at 25 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,5 cm

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	104 paperboard boxes (1.644 rounds)
1 wooden crate	2 metal boxes (3.328 rounds)

9×19mm SUBSONIC ROUND ĐS-919-CDA

LEAD CORE (BALL)



9×19 mm ĐS-919-CDA subsonic round is used for machine pistols Micro-Uzi or 9 mm submachine gun TL-K12 equipped with a suppressor.



Round is used against individual unarmored targets at close range



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Round length (max)	25,59 mm	Bullet type	Lead core
Case length (max)	19,15 mm	Case material	Bimetal F18
Round weight (max)	14,8 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	10,36 g	Primer	9x19SK

+ BALLISTIC SPECIFICATION

Average velocity (group of 20 shots) at 10 m	270...300 m/s
Maximum pressure per single shot	≤ 137,34 MPa (1.400 kG/cm ²)
Average maximum pressure	≤ 117,72 MPa (1.200 kG/cm ²)
Grouping accuracy at 100 meters (20 shots x 3 targets)	R _{50TB} ≤ 3,5 cm

+ PACKAGING

1 paperboard box	20 rounds
1 metal box	27 paperboard boxes (540 rounds)
1 wooden crate	02 metal boxes(1.080 rounds)

12,7×108mm ANTI-AIRCRAFT CARTRIDGE DCX-12,7 XC

ARMOR PIERCING -
INCENDIARY



12,7×108mm DCX-12,7 XC anti-aircraft cartridge is used for 12,7 machine guns produced by the Soviet Union, China, and Vietnam, etc.



Cartridge is used against personnel, to ignite flammable targets, destroy light armored underground targets, and low-flying aircraft



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	147 mm	Bullet type	Armor piercing - Incendiary
Case length (max)	108 mm	Case material	S20A steel
Cartridge weight (max)	126 g	Jacket material	Bimetal F11
Bullet weight (max) (max)	49 g	Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 10 shots) at 25 m	810...825 m/s with 997mm barrel
Maximum pressure per single shot	≤ 323,73 MPa (3.300 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 294,3 MPa (3.000 kG/cm ²)
Grouping accuracy at 140 m (20 rounds x 3 targets)	R _{50TB} ≤ 8,8 cm
Penetration	20 mm steel plate at 100 m

+ PACKAGING

1 metal box	96 cartridges
1 wooden crate	2 metal boxes (192 cartridges)





12,7×108mm ANTI-AIRCRAFT CARTRIDGE ĐCX-12,7 XCVĐ

ARMOR PIERCING - INCENDIARY - TRACER



12,7×108mm ĐCX-12,7 XCVĐ anti-aircraft cartridge is used for 12,7 machine guns produced by the Soviet Union, China, and Vietnam, etc.



Cartridge is used against personnel, to ignite flammable targets, destroy light armored underground targets, and low-flying aircraft



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	147 mm	Bullet type	Armor piercing - Incendiary - Tracer
Case length (max)	108 mm	Case material	S20A steel
Cartridge weight (max)	122 g	Jacket material	Bimetal F11
Bullet weight (max)	44,8 g	Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 10 shots) at 25 m	810...825 m/s with 997mm barrel
Maximum pressure per single shot	≤ 323,73 MPa (3.300 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 294,3 MPa (3.000 kG/cm ²)
Average shot grouping at 140m (10 shots)	R _{50TB} ≤ 8,8 cm
Penetration	15 mm steel plate at 100 m
Tracer performance	Illumination range not less than 1,500 m

+ PACKAGING

1 metal box	96 cartridges
1 wooden crate	2 metal boxes(192 cartridges)

12,7×108mm ANTI-AIRCRAFT CARTRIDGE ĐCX-12,7 H

BLANK CARTRIDGE



12,7×108mm ĐCX-12,7 H anti-aircraft cartridge is used for 12,7 machine guns produced by the Soviet Union, China, and Vietnam.



Cartridge used for training exercises.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	126,6 mm
Cartridge weight (max)	69 g
Case material	S20A steel
Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	15 m
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The sound of the shot, rate of fire, and muzzle flash are equivalent to combat ammunition.

+ PACKAGING

1 metal box	112 cartridges
1 wooden crate	2 metal boxes (224 cartridges)

14,7×114mm ANTI-AIRCRAFT CARTRIDGE ĐCX-14,5 XC

ARMOR PIERCING -
INCENDIARY



14,7×114 mm ĐCX-14,5 XCVD anti-aircraft cartridge is used for 14,5 mm machine guns such as Type 56, Type 75-1 (ZPU-1), Type K56 (ZPU-4), etc.



Cartridge is used against personnel, to ignite flammable targets, destroy light armored underground targets, and low-flying aircraft



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	156 mm	Bullet type	Armor piercing - Incendiary
Case length (max)	114 mm	Case material	S20A steel
Cartridge weight (max)	188 g	Jacket material	Bimetal F11
Bullet weight (max)	64,8 g	Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 10 shots) at 25 m	980...995 m/s with 1.350mm barrel
Maximum pressure per single shot	≤ 343,35 MPa (3.500 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 323,73 MPa (3.300 kG/cm ²)
Average grouping at 200m	R _{50TB} ≤ 13,3 cm
Penetration	20 mm steel plate at 200 m

+ PACKAGING

1 metal box	85 cartridges
1 wooden crate	2 metal boxes(94 cartridges)

14,7×114mm ANTI-AIRCRAFT CARTRIDGE ĐCX-14,5 XCVD

ARMOR PIERCING -
INCENDIARY - TRACER



14,7×114 mm ĐCX-14,5 XCVD anti-aircraft cartridge is used for 14,5 mm machine guns Type 56, Type 75-1 (ZPU-1), Type K56 (ZPU-4), etc.



Cartridge is used against personnel, to ignite flammable targets, destroy light armored underground targets, and low-flying aircraft



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	156 mm	Bullet type	Armor piercing - Incendiary- Tracer
Case length (max)	114 mm	Case material	S20A steel
Cartridge weight (max)	183 g	Jacket material	Bimetal F11
Bullet weight (max)	60,5 g	Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Average velocity (group of 10 shots) at 25 m	995...1015 m/s with 1.350mm barrel
Maximum pressure per single shot	≤ 343,35 MPa (3.500 kG/cm ²)
Average maximum pressure (group of 10 shots)	≤ 323,73 MPa (3.300 kG/cm ²)
Average grouping at 200m	$R_{50TB} \leq 13,3$ cm
Penetration	20 mm steel plate at 200 m
Tracer performance	Illumination range not less than 2,000 m

+ PACKAGING

1 metal box	47 cartridges
1 wooden crate	2 metal boxes(94 cartridges)





14,7×114mm ANTI-AIRCRAFT CARTRIDGE ĐCX-14,5 H

BLANK CARTRIDGE



14,7×114 mm ĐCX-14,5 H anti-aircraft cartridge is used for 14,5 mm machine guns.



Cartridge used for training exercises.



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	137,2 mm
Cartridge weight (max)	105 g
Case material	S20A steel
Primer	12,7SK (Berdan)

+ BALLISTIC SPECIFICATION

Safe distance from muzzle	15m
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The sound of the shot, rate of fire, and muzzle flash are equivalent to combat ammunition.

+ PACKAGING

1 metal box	67 cartridges
1 wooden crate	2 metal boxes (134 cartridges)

18,5×57-24G SHOTGUN SHELL

SHOTGUN SHELL



18,5×57-24G Shotgun Shell is used for Smoothbore gun (01 barrel or 02 barrels) with a 12 Gauge (18,5 mm) bore, or other equivalent firearms.



Cartridge used for training exercises.

+ TECHNICAL SPECIFICATION

Shell length (max)	57 mm	Pellet material	Lead
Shell weight (max)	39 g	Case material	HDPE plastic
Pellet diameter	2,4 mm	Primer	DCS-SVN88 (Berdan)
Pellet weight	24 g		

+ BALLISTIC SPECIFICATION

Average velocity (group of 10 shots) at 1,5 m	335...400 m/s
Maximum propellant gas per shot	≤ 64 MPa (652,8 kG/cm ²)
Maximum average propellant gas	≤ 60 MPa (612 kG/cm ²)
Shot group at 27.5 m (30 yards) (7-round group)	≥ 53% of the lead balls are within a 508 mm (20-inch) diameter circle on the paper target

+ PACKAGING

1 PE bag	05 shells
1 paperboard box	05 PE bags (25 shells)
1 carton box	10 paperboard boxes (250 shells)

PROPELLANT CHARGE

SHOTGUN SHELL



Propellant charge of riot control shells is used for shotguns and SPL-E112-A firearms produced by Vietnam, etc.



Riot control and intimidation

+ TECHNICAL SPECIFICATION

Shell length (max)	58,5 mm
Shell weight (max)	21,5 g
Case material	Bimetal F18
Primer	K51SK/K51 (Berdan)

+ BALLISTIC SPECIFICATION

Maximum fire range	70m
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+ PACKAGING

1 PE bag	06 shells
1 metal box	28 PE bags (168 shells)
1 wooden crate	2 metal boxes(336 shells)

7×22mm RUBBER ROUND

RUBBER ROUND



7×22 mm rubber round is used for RG88 Cal.10x22T and RG88 cal.9 mm P.A.K rubber ammunition guns produced by the Federal Republic of Germany, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 15 meters

+ TECHNICAL SPECIFICATION

Round length (max)	23,6 mm
Round weight (max)	4,9 g
Case material	Bimetal F18
Bullet material	Rubber
Primer	HL-CS 9.0 (Berdan)

+ BALLISTIC SPECIFICATION

Range causing pain	25...30 m
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+ PACKAGING

1 paperboard box	16 rounds
1 metal box	132 paperboard boxes (2.112 rounds)
1 wooden crate	2 metal boxes (4.224 rounds)

9×22mm RUBBER ROUND

RUBBER ROUND



9×22 mm rubber round is used for RG88 cal.9 mm P.A.K rubber ammunition guns produced by the Federal Republic of Germany, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 10 meters

+ TECHNICAL SPECIFICATION

Round length (max)	22,4 mm
Round weight (max)	4,6 g
Case material	Bimetal F18
Bullet material	Rubber
Primer	HL-CS 9.0 (Berdan)

+ BALLISTIC SPECIFICATION

Range causing pain	15...25 m
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+ PACKAGING

1 paperboard box	16 rounds
1 metal box	128 paperboard boxes (2.048 rounds)
1 wooden crate	2 metal boxes(4.096 rounds)

9×25mm RUBBER ROUND

RUBBER ROUND



9×25 mm rubber round is used for ME9 Mod.Para rubber ammunition guns produced by the Federal Republic of Germany, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 15 meters

+ TECHNICAL SPECIFICATION

Round length (max)	25 mm
Round weight (max)	4,9 g
Case material	Bimetal F18
Bullet material	Rubber
Primer	HL-CS 9.0 (Berdan)

+ BALLISTIC SPECIFICATION

Range causing pain	25...35 m
--------------------	-----------

+ PACKAGING

1 paperboard box	16 rounds
1 metal box	128 paperboard boxes (2.048 rounds)
1 wooden crate	2 metal boxes(4.096 rounds)

10×22 T RUBBER ROUND

RUBBER ROUND



10×22 T rubber round is used for Record Cal.10×22 T rubber ammunition guns produced by the Federal Republic of Germany, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 07 meters



TECHNICAL SPECIFICATION

Round length (max)	22,0 mm	Case material	Bimetal F18
Round base ridge diameter (max)	9,60 mm	Bullet material	Rubber
Round weight (max)	5,55 g	Primer	HLCS9.0 (Berdan)



BALLISTIC SPECIFICATION

Average bullet velocity at 5 m	330...370 m/s
Maximum pressure	≤ 40 MPa (407,7 kG/cm ²)
Shot group	
Shot group at 07 m	$R_{50TB} \leq 20$ cm
Shot group at 10 m	$R_{50TB} \leq 30$ cm
Effective fire range	7...15 m
Maximum fire range	50 m
Non-lethal capability	Will not embed or penetrate a 50x50 cm area of skin and soft tissue at a range of 10 m



PACKAGING

1 paperboard box	16 rounds
1 metal box	132 paperboard boxes (2.112 rounds)
1 wooden crate	2 metal boxes(4.224 rounds)

10×22mm RUBBER ROUND

RUBBER ROUND



10×22 mm rubber round is used for Record Cal.10×22 T rubber ammunition guns produced by the Federal Republic of Germany, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 15 meters

+ TECHNICAL SPECIFICATION

Round length (max)	23,8 mm
Round weight (max)	5,25 g
Case material	Bimetal F18
Bullet material	Rubber
Primer	HL-CS 9.0 (Berdan)

+ BALLISTIC SPECIFICATION

Range causing pain	25...35 m
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+ PACKAGING

1 paperboard box	16 rounds
1 metal box	128 paperboard boxes (2.048 rounds)
1 wooden crate	2 metal boxes(4.096 rounds)

10,5×41mm RUBBER ROUND

RUBBER ROUND



10,5×41 mm rubber round is used for MIT YSR.007.10 firearms from South Korea, etc.



Riot control and intimidation



Warning

Do not use this ammunition at a range of less than 05 meters

+ TECHNICAL SPECIFICATION

Round length (max)	45,5 mm
Round weight (max)	12,8 g
Case material	Bimetal F18
Bullet material	Rubber
Primer	H21 (Boxer)

+ BALLISTIC SPECIFICATION

Range causing pain	5...15 m
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+ PACKAGING

1 paperboard box	16 rounds
1 metal box	48 paperboard boxes (768 rounds)
1 wooden crate	2 metal boxes(1.536 rounds)



PART 02

ARTILLERY AMMUNITION



23×152mm ANTI-AIRCRAFT CARTRIDGE ĐCX23-NPST-C

HIGH EXPOSIVE -
FRAGMENTATION - INCENDIARY



23×152mm ĐCX23-NPST-C anti-aircraft cartridge is used for 23mm K85-2 twin-barrel and ZU-23, ZSU-23-4 cannons, etc.



Cartridge is used against personnel, to destroy light armored targets below ground level, and to target low-flying aircraft

+ TECHNICAL SPECIFICATION

Cartridge length (max)	236,5 mm	Bullet type	High explosive - Fragmentation - Incendiary
Case length (max)	151,5 mm	Case material	S15A steel
Cartridge weight (max)	450 g	Projectile body material	55-GB steel
Projectile weight (max)	188,5 g	Primer	D-28

+ BALLISTIC SPECIFICATION

Average velocity	970...990 m/s with 1.880mm barrel
Maximum pressure per single shot	≤ 311 MPa (3.170 kG/cm ²)
Maximum average pressure	≤ 296 MPa (3.017 kG/cm ²)

+ PACKAGING

1 metal box	20 cartridges
1 wooden crate	2 metal boxes (40 cartridges)

23×152mm ANTI-AIRCRAFT CARTRIDGE DCX23-NPST-VĐ

HIGH EXPOSIVE - FRAGMENTATION -
INCENDIARY - TRACER



23×152mm DCX23-NPST-VĐ anti-aircraft cartridge is used for 23mm K85-2 twin-barrel and ZU-23, ZSU-23-4 cannons, etc.



Cartridge is used against personnel, to destroy light armored targets below ground level, and to target low-flying aircraft

+ TECHNICAL SPECIFICATION

Cartridge length (max)	236 mm	Bullet type	High explosive - Fragmentation - Incendiary - Tracer
Case length (max)	151,5 mm	Case material	S15A steel
Cartridge weight (max)	450 g	Projectile body material	55-GB steel
Projectile weight (max)	188,5 g	Primer	D-28

+ BALLISTIC SPECIFICATION

Average velocity	970...990 m/s with 1.880mm barrel
Maximum pressure per single shot	≤ 311 MPa (3.170 kG/cm ²)
Maximum average pressure	≤ 296 MPa (3.017 kG/cm ²)

+ PACKAGING

1 metal box	20 cartridges
1 wooden crate	2 metal boxes(40 cartridges)

25×218mm NAVAL ARTILLERY CARTRIDGE ĐP-25-STVĐ

FRAGMENTATION - TRACER



25×218mm naval artillery cartridge ĐP-25-STVĐ is used for the 25M-110/110-PM cannon.



Cartridge is used against enemy personnel, to illuminate the trajectory of the projectile, adjust the firing trajectory, designate targets, create signals, and destroy airborne targets such as aircraft and other flying devices



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	294,22 mm	Bullet type	Fragmentation - Tracer
Case length (max)	220 mm	Case material	LK75-05 bronze
Cartridge weight (max)	690 g	Projectile body material	C60 carbon steel
Projectile weight (max)	280 g	Primer	KB-2Y

+ BALLISTIC SPECIFICATION

Projectile velocity	900±5 m/s
Maximum pressure per single shot	≤ 341,4 MPa (3.480 kG/cm ²)
Maximum average pressure	≤ 289,4 MPa (2.950 kG/cm ²)
Tracer performance	Illumination range not less than 1,500 m

+ PACKAGING

1 metal box	34 cartridges
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30×165mm NAVAL ARTILLERY CARTRIDGE DP-630-PST

HIGH EXPLOSIVE - FRAGMENTATION



30×165mm naval artillery cartridge DP-630-PST is used for the AK-630 or AK-630M cannon with AO-18 barrel, mounted on military vessels.



cartridge is used to destroy airborne targets such as anti-ship missiles, aircraft, helicopters, and other aerial assault vehicles, as well as small displacement surface vessels, torpedoes, coastal defense points, and enemy personnel



Shelf life: Minimum 15 years under proper storage conditions.

+ TECHNICAL SPECIFICATION

Cartridge length (max)	293 mm	Projectile type	High explosive - Fragmentation
Case length (max)	165 mm	Case material	S10C steel
Cartridge weight (max)	841 g	Projectile body material	S10C steel
Projectile weight (max)	390 g	Primer	BLD-30

+ BALLISTIC SPECIFICATION

Bullet velocity	890 m/s
Maximum pressure per single shot	≤ 341,4 MPa (3.480 kG/cm ²)
Maximum average pressure	≤ 343,5 MPa (3.500 kG/cm ²)

+ PACKAGING

1 metal box	26 cartridges
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76,2mm SALUTE SHELL ĐPL76

SALUTE SHELL



76.2mm salute shell ĐPL76 is used for AK-176, AK-176M, and AK-726 naval guns.



Salute firing during ceremonial events

+ TECHNICAL SPECIFICATION

Cartridge length (max)	767,5 mm	Case material	S15A steel
Case length (max)	543 mm	Projectile body material	Bakelit
Cartridge weight (max)	12,8 kg	Primer	UV-4M
Projectile weight (max)	5,85 kg		

+ BALLISTIC SPECIFICATION

Maximum pressure per single shot	$\leq 299,2$ MPa (3.050 kG/cm ²)
Maximum average pressure	$\leq 284,5$ MPa (2.900 kG/cm ²)
Lethal range	0 - 500 m

+ PACKAGING

1 wooden crate	03 shells
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85mm FULL CHARGE FRAGMENTATION SHELL ДР-85Д44СТ

HIGH EXPLOSIVE -
FRAGMENTATION



85mm Full Charge Fragmentation Shell ДР-85Д44СТ is used for 85-D44 cannon, CY-85 self-propelled cannon, and T-34 tank cannon.



Shell is used to destroy field fortifications, barriers, minefields, and other obstacles, as well as to eliminate enemy personnel and unarmored or lightly armored equipment



Warning

Do not use on 85-Д48 long-barrel cannon.

+ TECHNICAL SPECIFICATION

Shell weight (without fuze)	16,30 kg	Average TNT explosive weight	0,741 kg
Projectile weight (max) (without fuze)	9,178 kg	KTM-1Y primer weight	0,362 kg
Projectile weight (max) (with fuze)	9,540 kg	Primer	KB-4

+ BALLISTIC SPECIFICATION

Initial bullet velocity	793 m/s
Maximum average pressure	≤ 250,16 MPa (2.550 kG/cm ²)
Maximum range of fire	15.820 m

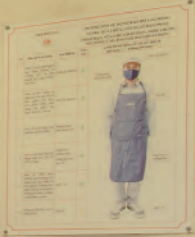
+ PERFORMANCE

Area of Effect of Fragmentation Shell	28m x 10 m
Cratering Effect (Width x Depth)	2,0m x 0,7m

+ PACKAGING

1 wooden crate	03 shells
Fuse	Seperate packaging





1076-108

1076-108

1076-108

10-354M

10-354M

10-354M

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10-354M

85mm APFSDS SHELL ĐP-D44XVT-367P

ARMOR-PIERCING FIN-STABILIZED DISCARDING SABOT (APFSDS)



85mm APFSDS shell ĐP-D44XVT-367P is used for firing from the 85-D44 cannon or on tanks.



Shell is used against tanks, armored vehicles, and enemy personnel sheltered in reinforced concrete bunkers

+ TECHNICAL SPECIFICATION

Shell weight	11,72 kg
Projectile weight (max)	5,35 kg
Armor-piercing core weight	1,625 kg
Projectile type	Armor-Piercing Fin-Stabilized Discarding Sabot (APFSDS)
Armor-piercing core material	Tungsten Carbide

+ BALLISTIC SPECIFICATION

Initial projectile velocity (full charge)	793 m/s
Maximum pressure per single shot	≤ 270,9 MPa (2.762 kG/cm ²)
Maximum average pressure	≤ 258,0 MPa (2.630 kG/cm ²)
Firing range when the target is 2m high	1140 m

+ PERFORMANCE

Penetration at 100...200m	≥ 126 mm
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+ PACKAGING

1 wooden crate	03 shells
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105mm SALUTE SHELL ĐP105-L

SALUTE SHELL



The 105mm salute shell ĐP105-L is used for the 105mm M2A1 or M2A2 cannon.



Shell used in events, commemorations, and major national ceremonies

+ TECHNICAL SPECIFICATION

Shell weight	2,835 kg
Shell length (max)	371 mm
Sound intensity level at 100 m	140±5 dB

+ PACKAGING

1 paperboard tube	02 shells
1 wooden crate	02 tubes (04 shells)

122 mm SHELL ĐP-122-Đ74 PST

**HIGH EXPLOSIVE -
FRAGMENTATION**



122mm shell ĐP-122-Đ74 PST is used for the 122-Đ74 and 122-K60 cannons.



Shell is used to destroy field fortifications, fences, minefields, and other obstacles, as well as to eliminate enemy personnel and unprotected or lightly protected military equipment. When necessary, it can be used against armored targets



TECHNICAL SPECIFICATION

Projectile length (max)	624 mm	Projectile type	High explosive - Fragmentation
Case length (max)	759 mm	Case material	LK 75-0,5 bronze
Projectile weight (max)	27,3 kg	Projectile body material	C60 carbon steel
		Primer	KB-5Y



BALLISTIC SPECIFICATION

Initial velocity (full charge)	885 m/s
Maximum pressure per single shot	≤ 325 MPa (3.310 kG/cm ²)
Maximum average pressure	≤ 309 MPa (3.150 kG/cm ²)



PACKAGING

1 wooden crate	01 propellant charge + 01 projectile
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130mm SHELL ĐP-130-M46 PST

**HIGH EXPLOSIVE -
FRAGMENTATION**



130mm shell ĐP-130-M46 PST is used for the 130-M46, 130-K59, and 130-K59-1 cannons.



Shell is used to destroy field fortifications, fences, minefields, and other obstacles, as well as to eliminate enemy personnel and unprotected or lightly protected military equipment. When necessary, it can be used against armored targets

+ TECHNICAL SPECIFICATION

Projectile length (max)	670 mm	Case material	LK 75-0,5 bronze
Case length (max)	845,5 mm	Projectile body material	C60 carbon steel
Projectile weight (max)	33,4 kg	Primer	KB-5Y
Projectile type	High- explosive - Fragmentation		

+ BALLISTIC SPECIFICATION

Initial velocity (full charge)	930 m/s
Maximum pressure per single shot	≤ 325 MPa (3.310 kG/cm ²)
Maximum average pressure	≤ 309 MPa (3.150 kG/cm ²)

+ PACKAGING

1 wooden crate

01 propellant charge + 01 projectile

152 mm SHELL ĐP-152-Đ20 PST

HIGH EXPLOSIVE -
FRAGMENTATION



152mm shell ĐP-152-Đ20 PST is used for the 152-Đ20 cannon.



Shell is used to destroy field fortifications, fences, minefields, and other obstacles, as well as to eliminate enemy personnel and unprotected or lightly protected military equipment. When necessary, it can be used against armored targets

+ TECHNICAL SPECIFICATION

Projectile length (max)	706 mm	Case material	LK 75-0,5 bronze
Case length (max)	547,5 mm	Projectile body material	C60 carbon steel
Projectile weight (max)	43,56 kg	Primer	KB-4
Projectile type	High explosive - Fragmentation		

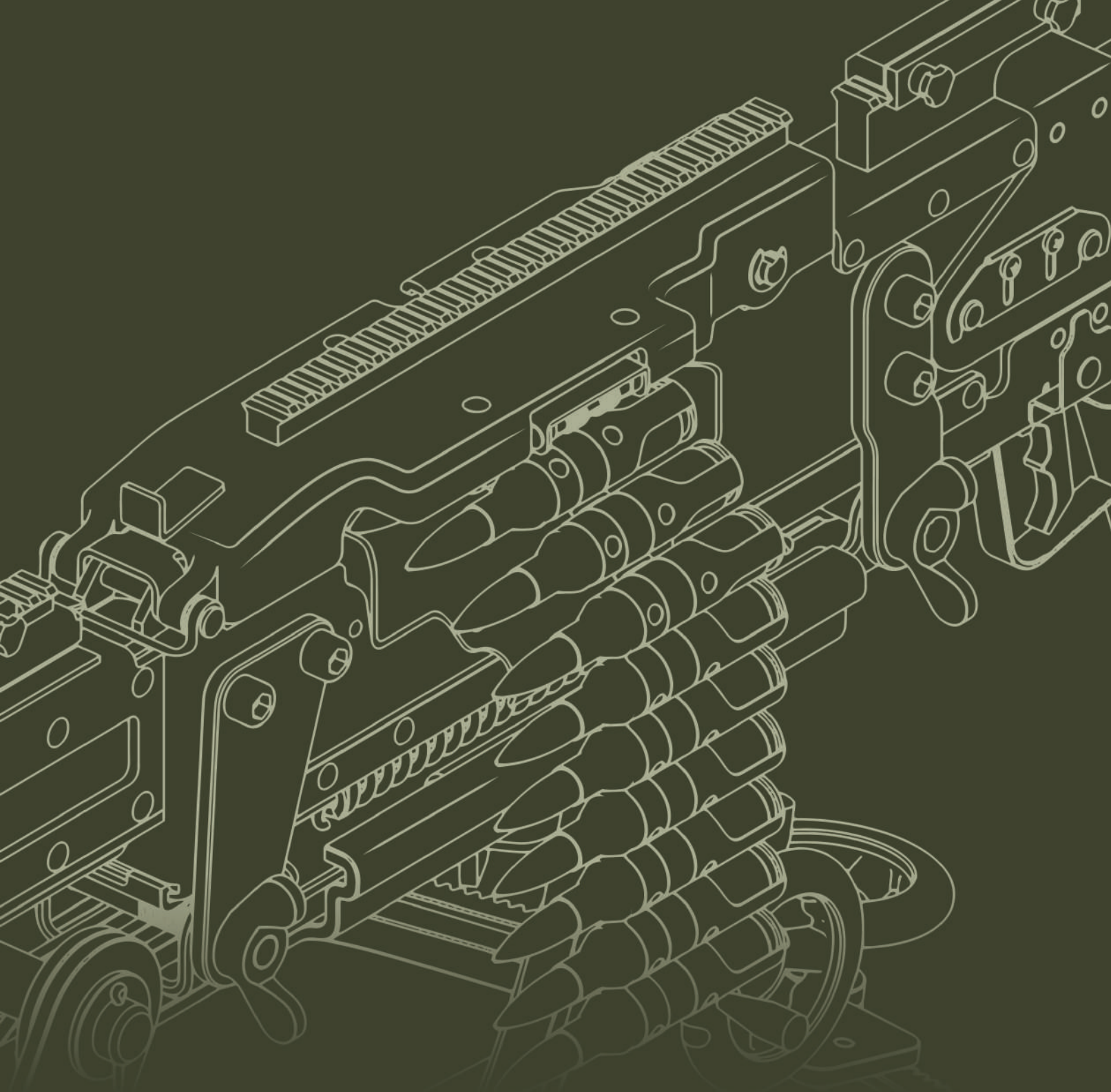
+ BALLISTIC SPECIFICATION

Initial velocity (full charge)	655 m/s
Maximum pressure per single shot	≤ 242 MPa (2.470 kG/cm ²)
Maximum average pressure	≤ 230 MPa (2.350 kG/cm ²)

+ PACKAGING

1 wooden crate	01 propellant charge + 01 projectile
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